CALL FOR PAPERS

SYMPOSIUM ON SELECTED AREAS IN COMMUNICATIONS

INTERNET OF THINGS TRACK

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Scope and Topics of Interest

This track aims at gathering researchers and developers from the fields of the Internet of Things (IoT) and Machine-to-machine (M2M) communications to discuss the future technologies and research challenges associated to new applications and services bridging the physical and virtual worlds, with End to End / M2M protocols and Cloud computing and things internetworking. The Internet of Things is a key enabler for the realization of the new oneM2M initiative as it allows for the pervasive interaction with/between smart things leading to an effective integration of information into the digital world. These smart (mobile) things - which are instrumented with sensing, actuation, and interaction capabilities - have the means to exchange information and influence the real world entities and other actors of a smart city eco-system in real time, forming a smart pervasive computing environment. The objective is to reach a global access to the services and information through the so-called Web of Things and efficient support for global communications, in order to embrace the machine to machine (M2M) communications in the future Internet of Things composed of IPv6 network and various smart things. This track will also address further issues such as the adaptation of legacy technologies and RFID to IPv6 and the Future Internet of Things, security and privacy requirements in Smart Cities and the design of a secure and privacy-aware Internet of Things as well as the definition of new advanced architectures and models for the Internet and its application to smart livable Cities. Topics of interest include, but are not limited to:

- Architectures for the Internet of Things (IPv4 & IPv6 Enabled)
- Future technologies bridging the physical and virtual worlds
- End to End / Machine to Machine (M2M) protocols
- Cloud computing and IoT internetworking
- Middleware architectures & M2M Platforms
- Web of Things and Semantic (e.g., SenML, SSN-X3G)
- Experiences with Open Platforms and hardware within IoT
- Embedded Web Services (RESTFul, CoAP, Lightweight SOAP…)
- Lightweight structured data (EXI, JSON…)
- Mobile integration of the Web of Things

- Novel concepts such as Crowd-sourcing
- User-oriented, context-aware IoT services
- Semantic technologies for devices and services
- Indexing, naming, and addressing the Internet of Things
- Integration of the Handle System
- Security, Trust, Privacy and Identity in the IoT
- Smart cities, including business models and new services for Smart Cities
- Smart cities through mobile computing and smart phones interaction
- Efficient resource management (water, energy…) in Smart Cities
- Building automation and smart buildings
- Smart cities deployments, test-beds and field trials

Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline of **15 March 2013** for publication in the IEEE Globecom 2013 Conference Proceedings and for presentation at the conference. Submissions will be accepted through EDAS. All submissions must be written in English and be at most six (6) printed pages in length, including figures. For full details, please visit the following website:

http://www.ieee-globecom.org/2013/submguide.html